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			8	2
	SYMBOL APE UNIT CON			
'	BOARO			
TERM. MOD.	FUNCT	TERM.	LOC	
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	SYMBOL			
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	BOARO			
TERM. MOD.	FUNCT	TERM.	1.00	
BACRO	1	315	382	
BKSPACC	Ī	017	486	
BSFLO	1	317	4.40	
CLKØ11	Ī	018	2A1	
CLK921	I	118	2A0	
CRCERO	1	300	440	
ENRD1	1	207	386	
FILEN81	1	003	3A6	
FWD0	1	316	4A1 4A0	
NILVL1	1	T04		
INITBO	1	009	480	
MAINT1	1	108		
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RSP1	1	101	254	
RHDINGBO	1	013	480	
RWTSTPCO	1	117	3.53	
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TTBSTO	1	302	482	
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WENAAO	1	107	3A5	
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BLUCKO	9	001	4116	
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DDINHO	9	002	4116	
FILLAO	g	303	3H6 3H5	
FILLO		004 310	2H9	
RDAOJO	- 1	306	386	
SDINO	_			
ST#PPO	8	301	4H3 2H3	
HROATA		312 218	2H3 3H2	
HILVEL1	91	109	2H7	
ROADJ1	#I	109		
STEPPRO	FILE	209	3H4 2H4	
WDATA1	SI	102	2H4 2H1	
18711	gI	010	2H1 2H4	
+5	P	-		
+5	р	119	2H4	
GRO	6	200	2117	
GRO -	6 -	319	2H7	

NOTES:

- 1. 1 GROUND RETURN
- 2. UNLESS OTHERWISE SPECIFIED:
  - RESISTANCE VALUES ARE IN OHMS CAPACITANCE VALUES ARE IN MICROFARAOS VALUES PRECEDED BY THE SYMBOL +(PLUS) OR -(MINUS) ARE IN VPLTS
- BATTERY AND GROUND TERMINALS FOR INTEGRATED CIRCUITS

IC	BAT.	GRO
CODE	TERM.	TERM.
41 AA	16	В
41AE	16	7.8
41BP	16	8
41CA	16	В
41CC	16	В
41 CJ	16	8
410	16	В
419	16	8
		-
	-	-
		-

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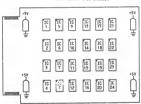
USEO ON

SYSTEMS

4 BATTERY AND GROUND TERMINALS FOR THIS CIRCUIT PACK ARE AS FOLLOWS:

> #5 000,119 GRD 200,319

- 5. NORIZONTAL MOUNTING CENTERS AT 0.50 INCN.
- INTEGRATED CIRCUIT LOCATION GUIDE: (COMPONENT SIDE SNOWN).



UNNUMBERED COMPONENTS ARE FILTER CAPACITORS

SUPPORTING INFORMATION

CATEGORY NO.

CIRCUIT PACK CODE
JA18

CONNECTOR ON FRAME
947A OR
947C

ACCEPTABLE SERIES 3

CURRENT ORAIN: 305ma

SHEET INGEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.

RECORD OF CHANGES

PREV STD

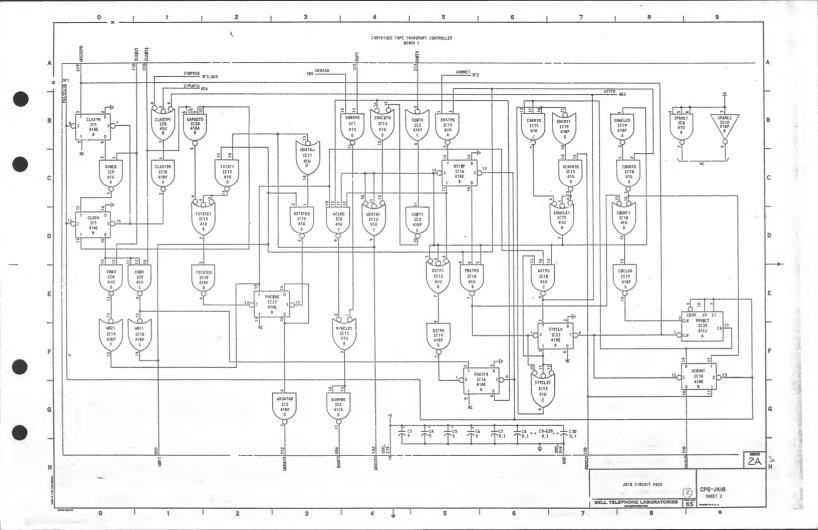
- Inis sheet index will be reissued and brought up to date each time any sheet of the oraning is reissued, or a mem sheet is added.
- THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SMEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE FIRST SHEET.
- SHEETS THAT ARE NOT CHANGED WILL RETAIN INEIR EXISTING ISSUF NUMBER.

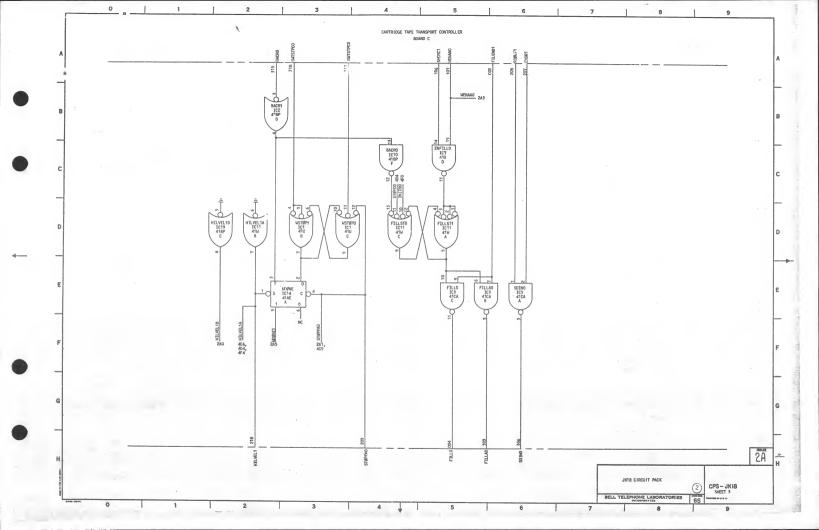
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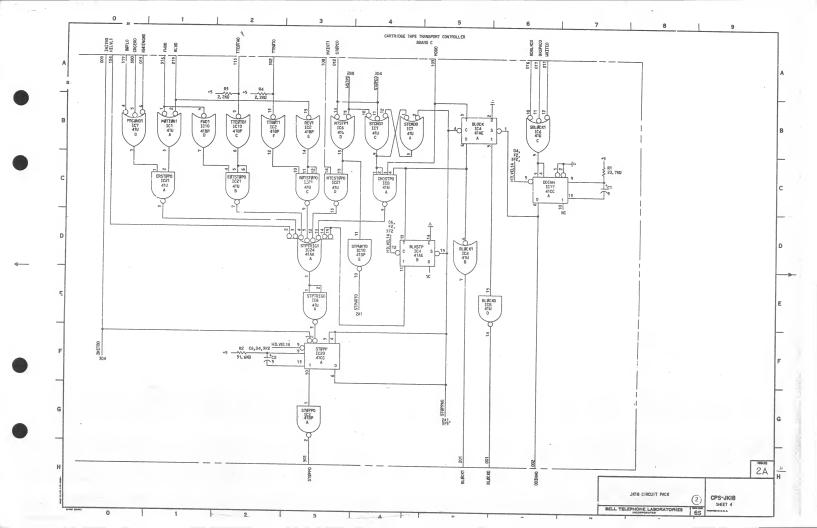
*	AT&TCO STANDARD
JK18 CIRCUIT PACK	
CARTRIDGE TAPE TRANSPORT CONTROLLER BOAR CIRCUIT	0 с
	2 CPS-JKI8 8 SHEETS
BELL TELEPHONE LABORATORIES	65 mm

THE LAST ISSUE NUMBER OF THE FIRST SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE ORANING AS A MHOLE.

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G	F	E	D	С	В	. A
		RESISTOR DESIG R1 R2 R3 R4	CAPACITOR  OESIG  [6]C1-C6 [24]C7-C30	LOC CDDE ELEM ID A B	LOC CODE ELEM ID  A B C D E	COMPONENT I
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			XCARRYO 2C7	IC15 41U OESIG SH LOC ENSTPO 285 EMHCLK1 2D7 CARRYO 286	ICS 41CA DESIG SH LOC SDINO 3E6 FILLAO 3E5 FILLO 3E5 BSHP#00 2G4	
				IC16 41AE  DESIG SH LOC ENSATA 265 OST#P 2CS	ICA 41AE OESIG SH LOC BLBCK 4BS BLKSTP 404	
				IC17 41CC DESIG SH LOC OOINH 4C6	ICS 41AE DESIG SH LOC CLKS::1 280 CLKEM 200	
			CSTUNTS 208	IC1B 41U 0ESIG SH LOC CBUNTO 2CB PBSTPO 2ES HSTPO 2E7	IC6 41U CESIG SH LOC STPTISGO 4E3 SPARET SOLECK1 486 HISTP1 485	
			HILTELIN 302 OS OSTPO 2FS EMERY1 287 HZ21 2F0 CSCLKO 2EB	IC19 41BP  DESIG SH LOC EMACKLD 28B 1STATEO 2E1 HTLYEL18 302	IE7 41U  OES16 SH LOC SICHOO 48A EREGMOI 480 SICHOI 484 ENFILLD 3C5	
				IC20 41CC OESIG SH LOC STUPP 4F3	ICB 41H  OESIG SH LOC  CM05170 4C4 BLRCK1 40S NCLKO 204 BLRCKO 4ES	
			SPISIEPO 4CS	IC21 41U DESIG SH LOC ERSTUPO 4C1 ENTSTUPO 4C2 BUTSTUPO 4C3 HTCSTUPO 4C3	IC9 41U DESIG SH LOC SYNCO 2CO CLKSTP1 281 2E1 EMW12 2ED	
				IC22 41AE 0ESIG SH LDC STPCLK 2F7 PHCBDE 2E2	IC10 41DP  0ES16 SH LOC  CCKSTPO 2C1 SFARE2 TFID11 481 SFPARTD 4D4 BACKD 3C4 H911 2F1	
				IC23 41CJ DESIG SH LOC PRPØCT 2F9	IC11 41W DESIG SH LOC FILLST1 30S HILVELTA 302 FILLST0 304 MDATAO 2C5	
-				IC24 41AA  DESIG SH LDC  STPTRIGI 403 GAPSETD 281	IC12 41U DESIG SH LOC R/ACLK1 2F4 0STP1 2E4 LOATA1 204 ENSC#TD 284	
2A						

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## CIRCUIT DESCRIPTION

### A. FUNCTIONAL DESCRIPTION

JICTB IS ONE OF THE FOUR CARTRIDGE TAME TRANSPORT CONTROLLER (CTTC) BARDOS. IT CONTRINS THE WRITE CIRCUITRY, COMDITION STOP LOGIC, AND BUFFER FILL REQUEST CIRCUITRY. THE RRITE CIRCUITRY INCLUDES A PREAMBLE GENERATOR, A POSTAMBLE GENERATOR, AND A DATA PHASE ENCORPE (TROUIT.

A DATA PHASE BUDGER CIRCUIT.

FIGRE 11 SA DACO CAIGARA OF JUTIS. AS A WRITE DEPOSITION SEGNIS, A 25th PLASE COURS ON THE WRITE DEPOSITION SEGNIS, A 25th PLASE COURS ON THE WRITE PROPERTY OF THE WRITE CAIRCING SEGNIS OF THE WRITE CAIRCING SEGNIS OF THE WRITE DAY A WRITE CORPWO TO THE CITY. THE WRITE CAIRCING SEGNIS OF THE CADOC SMC CIRCUIT, AND CHAPTER SEGNIS OF THE CADOC SMC CIRCUIT, AND CHAPTER SEGNIS OF THE WRITE SEGNIS

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THE STOP CIRCUIT GYMERITES A 40-H STOP PLASS MATERIES THE TAPE DATA CLATROLLER (TOC) UNIT EXPERIENCES, ANY ONE OF SEVERAL COL-OTTIONS. THIS PLASE, MATERIA SPECIAL THE STOP PLASS LEAD, RESETS ALL CIRCUITS OF THE CITC TO THE IN MOON STOP OR INITIOS STATE. THIS STOP PLASE IS ESTEMATED UNDER THE FOLLOWING COM-OTTIONS.

#### (A) BUFFER OVERFLOW

THE BUFFER CIRCUITS HERE NOT PROPERLY SERVICED BY THE CENTRAL PROCESSOR (ERROR CONDITION).

#### (B) CRC ERA

A CRC ERROR HAS DETECTED DURING THE PREVIOUS READ OR READ-AFTER-WRITE GPERATION.

#### (C) REWINDING

THE CTT STARTS A REMINO SEQUENCE.

### (0) BEGINNING OR END OF TAPE

THE CTT SENSES THE PHYSICAL REGINNING DF TAPE OR THE PHYSICAL EXD OF TAPE MARKERS,

# (E) STOP

A STEP COMMAND IS ISSUED TO THE CTTC.

#### (F) THE COMPLETION OF A BACKSPACE, WRITE, OR READ-A-BLOCK OPERATION

EITHER OF THESE COMMANDS ISSUED TO THE CITIC WILL SET THE JIBG STOP CIRCUIT. THIS CIRCUIT MONITORS THE DATA DETECT INPUT. AFTER OSSERINIOS DATA DETECT OF ACTUAL THE INACTIVE (MOICATING THAT THE CITIC MS CROSSED A BLOCK OF DATA) IT TRIGGERS THE STOP CIRCUIT.

#### (G) TDC INSTIALIZE

A TDC INTIALIZE COMMAND IS ISSUED TO THE TDC.

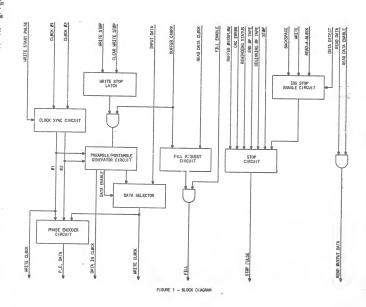
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READ OUTPUT DATA LEAD, THE READ OUTPUT DATA LEAD TRAIS-HITS READ DATA TO THE BUFFER CIRCUITS. THE READ DATA LEAD IS EMBALED BY WIRE MEMERVER DATA IS BEING TRAIPER-RED THROUGH THE READ CIRCUITS OR FROM THE ORC REGISTER TO THE BUFFER CIRCUIT.



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JK1B CIRCUIT PACK

BELL TELEPHONE LABORATORIES

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CPS-JKI8

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B, DETAILED DESCRIPTION

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